

**IN THE ABSTRACT:**

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## ABSTRACT

An implantable electrical medical system comprises a low voltage cathode electrode assembly, including a cathode surface adapted for intimate contact with electrically active tissue, and a low voltage anode electrode assembly, including an anode surface and a porous layer extending over the anode surface. The cathode surface and the anode surface function as a bipolar pair for pacing and the porous layer extending over the anode surface allows conduction therethrough and prevents the anode surface from contacting the electrically active tissue in order to prevent anodal stimulation.